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BSc. Computational Intelligence and Design (CPSC Stream)

Program Requirements

Requirements	Courses (<i>fill in grey squares</i>)	Credits	Prerequisites/Notes
<i>Lower Year</i>			
CPSC 110 (or 103 and 107)		4 (or 6)	<u>Pre-req for CPSC 107:</u> CPSC 103 <u>Recommendation:</u> CPSC 110
CPSC 121	CPSC 121	4	<u>Co-reqs:</u> CPSC 107 or 110 <u>Recommendation:</u> Can be taken at same time as corequisite, but NOT recommended
MATH 100 (or 120 or 180)		3	
MATH 101 (or 121)		3	
COGS 200	COGS 200	3	
CPSC 210	CPSC 210	4	<u>Pre-req:</u> CPSC 110
CPSC 221	CPSC 221	4	<u>Pre-req:</u> CPSC 121
LING 100	LING 100	3	
PHIL 220 (or 222 or 320)		3	<u>Pre-req for PHIL 320:</u> PHIL 220 or 222

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STAT 200 (or 201 or 241 or 251)		3	<p><u>Note:</u> Students must achieve a grade of greater than 72% in this course, or else must take another 3 credits of MATH or STAT in order to be admitted to CPSC 320</p> <p><u>Pre-req for STAT 200:</u> One of MATH 100, MATH 190</p> <p><u>Pre-req for STAT 201:</u> DSCI 100</p> <p><u>Pre-req for STAT 241/251:</u> One of MATH 101, 121</p>
<i>Upper Year</i>			
COGS 300	COGS 300	3	<u>Pre-req:</u> COGS 200
COGS 303	COGS 303	4	<u>Pre-req:</u> COGS 200
COGS 401	COGS 401	3	<u>Pre-req:</u> COGS 300
COGS 402	COGS 402	3	<p><u>Pre-req:</u> COGS 300</p> <p><u>Recommendation:</u> Take COGS 401 prior</p>
CPSC 312	CPSC 312	3	<u>Pre-req:</u> CPSC 210
CPSC 320	CPSC 320	3	<u>Pre-req:</u> CPSC 221 and 3 credits from COMM 291, BIOL 300, MATH/STAT at 200+ level
CPSC 322	CPSC 322	3	<u>Pre-req:</u> CPSC 221

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PHIL 326 or 351 or 441 or 451 or 455		3	<p><u>Pre-reqs for PHIL 326:</u> LING 201 or PHIL 220 or PHIL 222, 6 credits of PHIL/LING at 200+ level.</p> <p><u>Pre-reqs for PHIL 351:</u> PHIL 211, 212, 220, 222, 230, 235, 240, 250, 260, or COGS 200</p> <p><u>Pre-reqs for PHIL 441 and PHIL 451:</u> PHIL 240 or COGS 200 (if COGS 200, 3 credits in PHIL at 200+ level)</p> <p><u>Pre-reqs for PHIL 455:</u> PHIL 441 or PHIL 451 or 6 credits of PHIL at 200+ level (excluding PHIL 220/320)</p>
PSYC 365	PSYC 365	3	<u>Pre-req:</u> COGS 200
400-Level CPSC Module Course		3	
Additional Module Course		9	<u>Note:</u> All 9 credits must be non-CPSC courses

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Faculty Requirements (note that some requirements may overlap)

Requirements	Description	Fill Course(s)	Credits
Communication Requirement	<p>SCIE 113 and 3 additional credits from approved list of communication courses</p> <p><u>Note:</u> Approved communications courses (aside from SCIE 113) are WRDS 150; ENGL 100, 110, or 111; WRCM 1st transfer credit, SCIE 300 or CHEM 300; APSC 176; LFS 150; FRST 150; Arts One (equivalent to 3 credits), ATSU 100, 101 (or equivalents). Each of these may have varying pre-reqs so please check carefully before selecting.</p> <p><u>Note:</u> Must be completed for promotion to 4th year</p>	SCIE 113,	6
Foundational Requirements	<p>Appropriate foundational courses in Biology, Chemistry, and Physics.</p> <p><u>Note:</u> Students with credit for neither Biology 11 nor Biology 12 must successfully complete 3 credits of 100-level BIOL (usually BIOL 111).</p> <p>Students without credit for Chemistry 12 must successfully complete CHEM 100, CHEM 110 or CHEM 111.</p>		N/A

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	Students without credit for Physics 12 must successfully complete 3 credits of 100-level PHYS (usually PHYS 100).		
Laboratory Science Requirement	One course from: ASTR 101, ASTR 102, BIOL 140, CHEM 111, CHEM 115, CHEM 121, CHEM 123, CHEM 135, EOSC 111, PHYS 101, PHYS 107, PHYS 109, PHYS 119, PHYS 159, SCIE 001		3
Science Breadth Requirement	<p>3 credits from 6 of the following categories:</p> <ol style="list-style-type: none"> 1. Mathematics 2. Chemistry 3. Physics 4. Life Science 5. Statistics 6. Computer Science 7. Earth & Planetary Science <p><u>Note:</u> These courses may be completed at any level.</p> <p><u>Note:</u> Students who fail to satisfy at least all but one of the categories before 108 attempted credits will be required to withdraw from the Faculty of Science.</p> <p><u>Note:</u> Students who successfully complete Science One are credited</p>		18

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	with having 3 credits in the Mathematics, Chemistry, Physics, and Life Science categories.		
Electives	<u>Recommendation:</u> Electives are a great way to rack up prerequisites for module courses and work towards fulfilling other faculty requirements (i.e. Upper Level Requirements, Arts/Science Requirements).		51

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FAQ

WHERE DID THE INFORMATION IN THIS GUIDE COME FROM?

This guide was put together by the VPs Academic for the Cognitive Systems Society and *is not a replacement for the UBC Academic Calendar or Workday*. Program and faculty requirements as well as information about prerequisites was sourced from the UBC 2024/2025 Academic Calendar and Workday, and last updated for this guide **AUGUST 2024**.

WHERE CAN I FIND MORE INFORMATION ON A REQUIREMENT OR COURSE?

Course descriptions can be found on Workday and the Course Descriptions page of the UBC Academic Calendar. [Science faculty requirements](#) and [Arts faculty requirements](#) can be found on the UBC Academic Calendar (please make sure you are looking at the year in which you registered!). The program requirements for the streams can also be found on the UBC Academic Calendar at: [Cognition and Brain \(Arts\)](#), [Language, Mind, Language, and Computation](#), [Computational Intelligence and Design](#), [Cognition and Brain \(Science\)](#).

WHAT MODULE COURSES SHOULD I TAKE?

While we cannot give you a definitive answer to this, you can find [the list of Module Courses on the Cognitive Systems program website](#)! For more information about prerequisites, we have a resource on the CSS website (please note that this is a CSS resource, just like this document, and not a program resource, and you should *cross-check for accuracy!*).

THE REQUIREMENTS ON THIS GUIDE ARE DIFFERENT FROM MINE LISTED ON WORKDAY.

Workday is probably right! This document was last updated **AUGUST 2024**, so students who registered for either UBC or the COGS program in past or future years may find discrepancies.

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We will try to update this guide regularly, but the UBC Academic Calendar and Workday should be your number one source!

THIS COURSE THAT I NEED IS RESTRICTED/FULL. WHAT DO I DO?

Unfortunately, this is out of our scope. If there is a waitlist and you meet the prerequisites, register for that as soon as possible. Otherwise, reach out to your Program Advisor or whichever department is running the course.

I THINK I NOTICED A MISTAKE IN THIS GUIDE.

Oh no! Please feel free to shoot us an email, Discord message, or Instagram message. Remember that while we will try to update this document regularly, this guide is not a replacement for your Workday Academic Progress report, which will contain the most updated information regarding course and program requirements.

I STILL HAVE QUESTIONS.

Please see the [FAQ on the Cognitive Systems Program Website](#). If you still have questions about Module Courses or Program requirements, contact your Program Advisor. For questions about faculty requirements, please reach out to your Faculty Advising office.